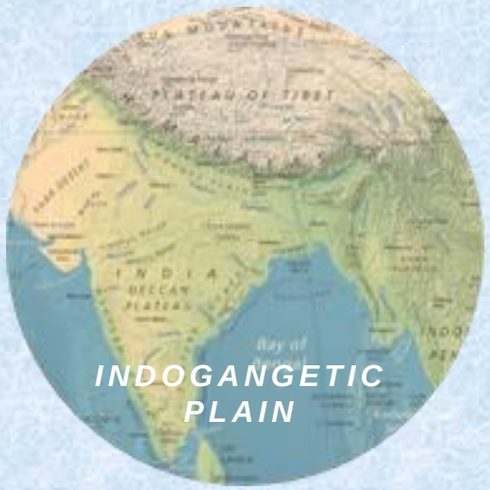


IRAP: *INTEGRATING CLIMATE INFORMATION AND DECISION PROCESSES FOR REGIONAL CLIMATE RESILIENCE*

JIM BUIZER

School of Natural Resources & Institute of the Environment
University of Arizona

LISA GODDARD

International Research Institute for Climate and Society
Columbia University

IRAP

INTEGRATING CLIMATE INFORMATION AND DECISION PROCESSES FOR REGIONAL CLIMATE RESILIENCE

IRI and U. of Arizona Team Up for Climate

Posted by IRI on May 22, 2014

IRI and the University of Arizona address climate vulnerability in most at-risk areas of the world in new project

The Caribbean, Asia's Indo-Gangetic Plain and West Africa are three regions known to be extremely vulnerable to climate variability and change, particularly to droughts, extreme weather events and stresses on food production, water resources and coastal areas. A new five-year project jointly led by the International Research Institute for Climate and Society and the University of Arizona aims to strengthen climate resilience in these regions using strategies in the sectors of water resources, hazard risk management and coastal planning and management.

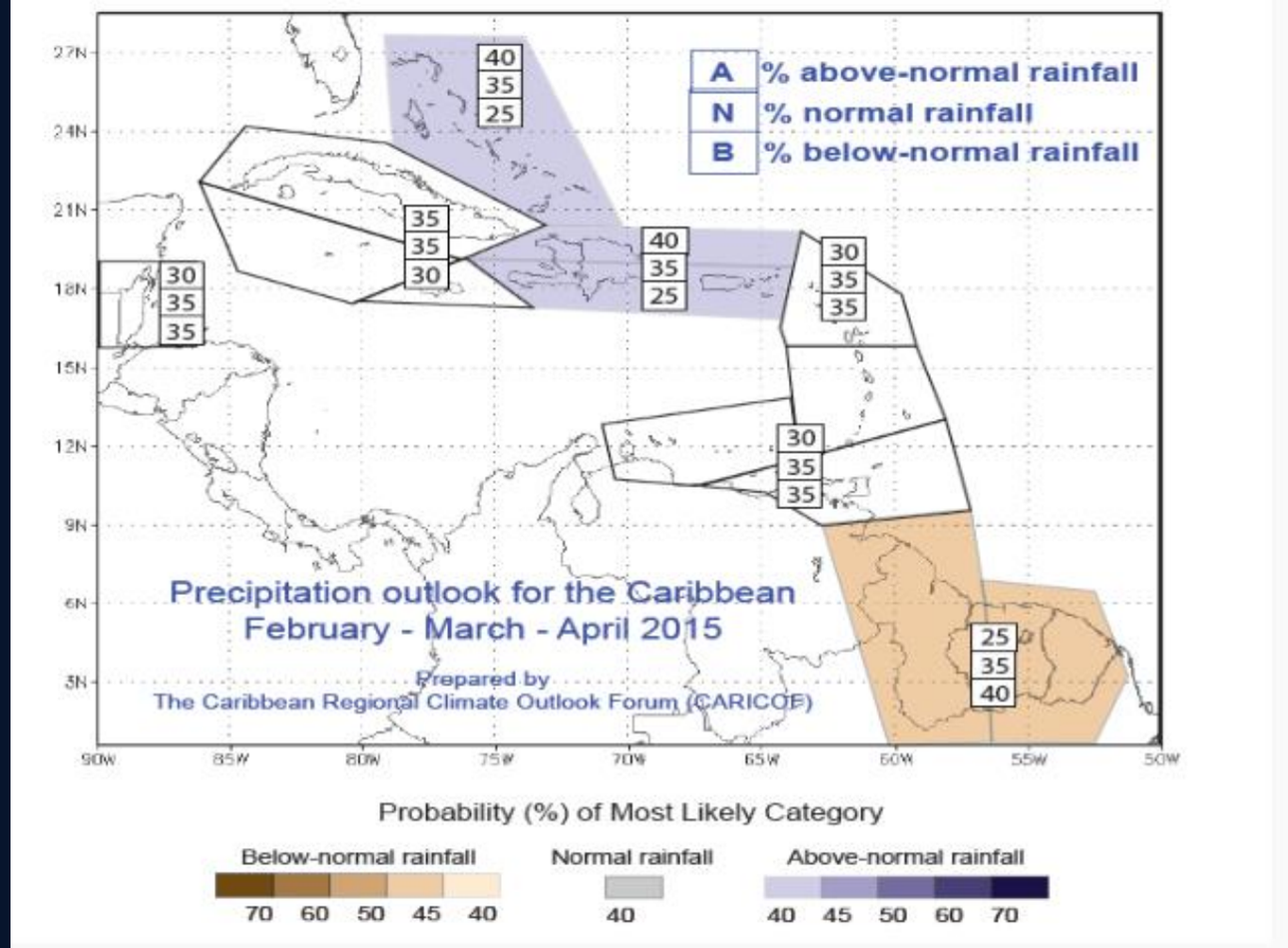
"We know that today's climate threatens hard-won development gains made in these regions, and these threats are likely to worsen with future climate change," says IRI Director Lisa Goddard. "Our goal is to not only help them better anticipate climate-related impacts but also to identify ways to reduce their vulnerability to such events before they occur, while also increasing their ability to bounce back if and when they're hit with such

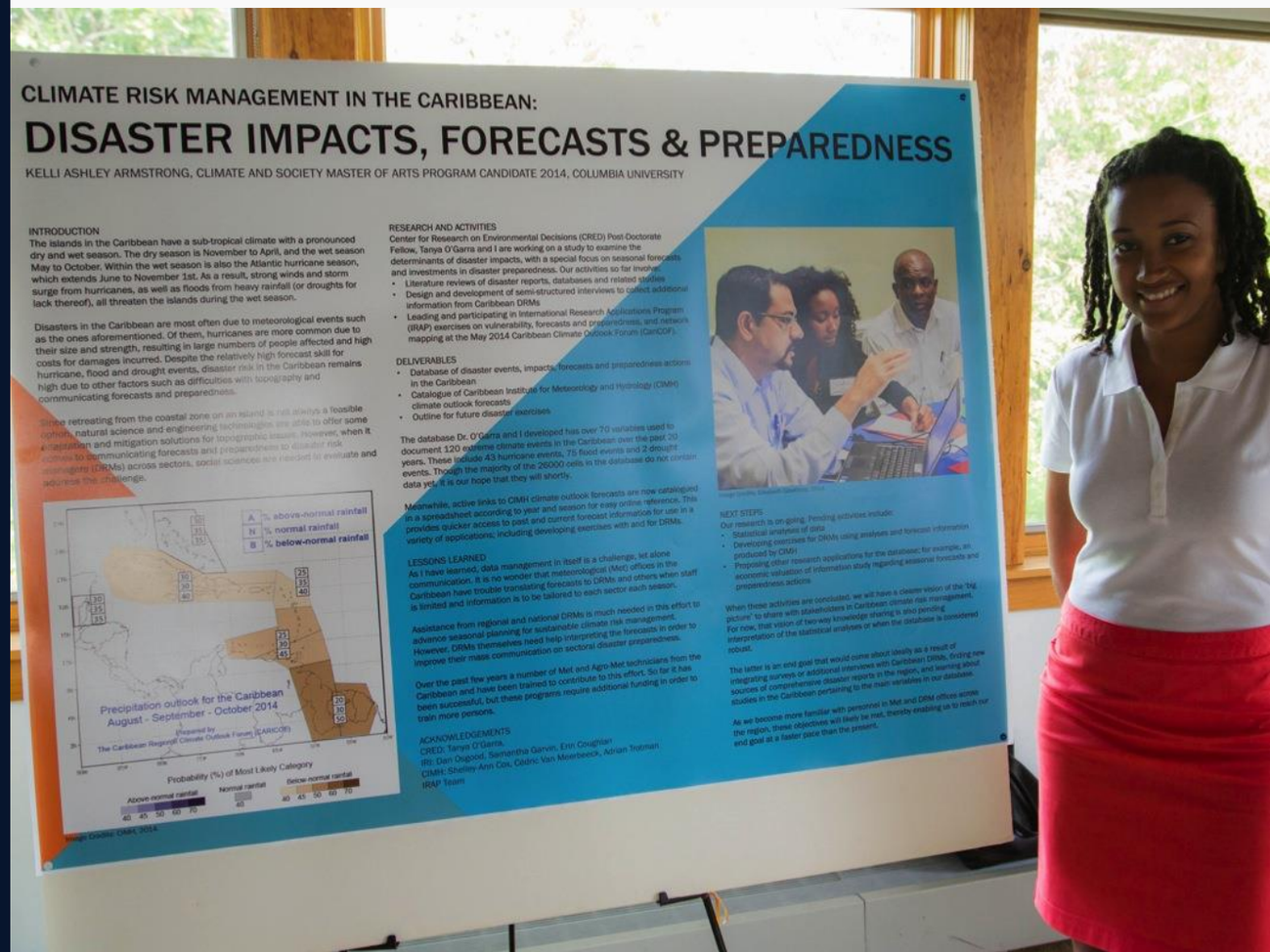
IRAP OBJECTIVE

Foster adaptation and increase resilience of communities and sectors vulnerable to climate variability and change by supporting decision-making and risk management through improved design, production and provision of use-inspired climate information, particularly as an integral part of international development goals.

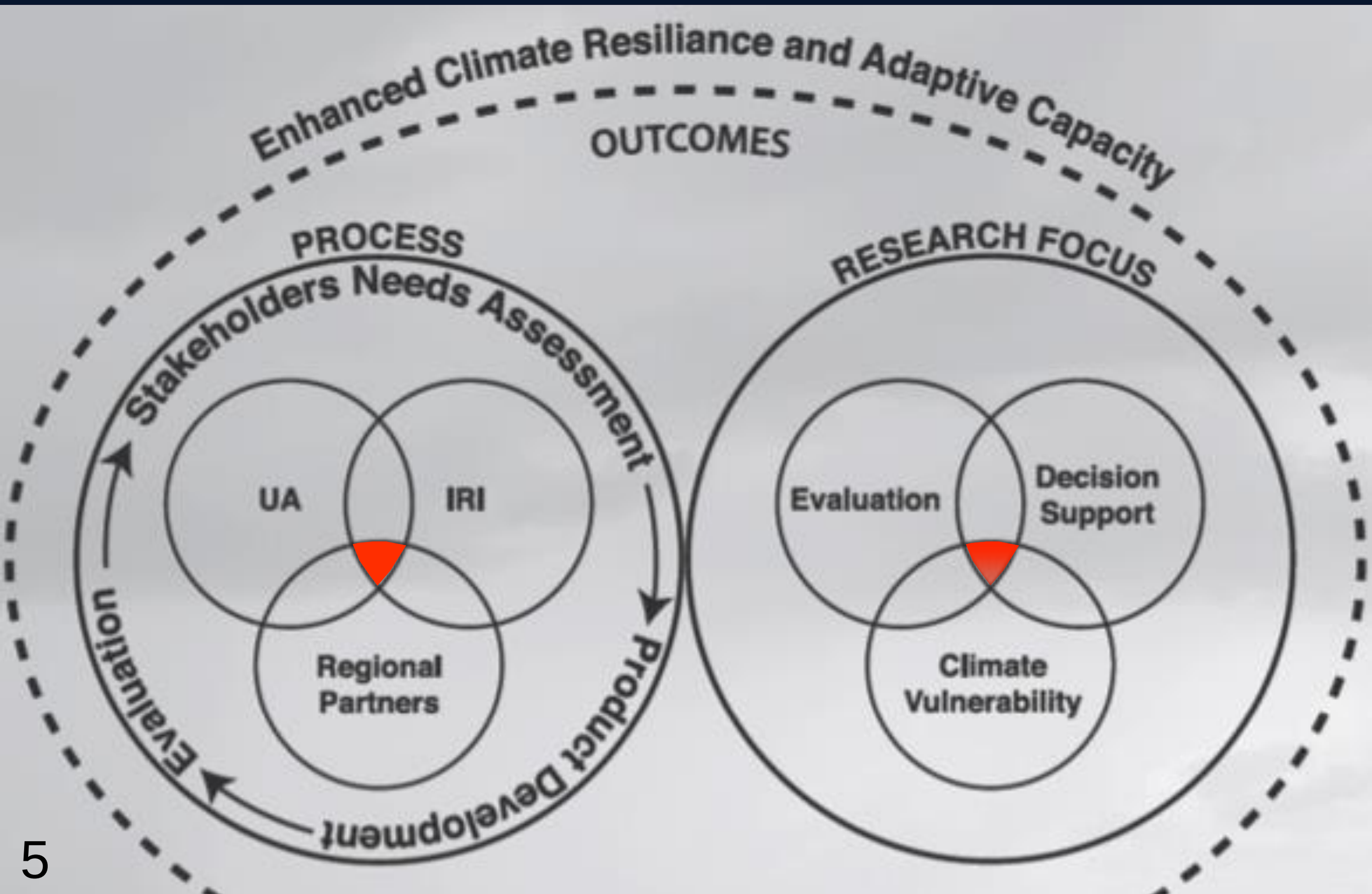
FIVE INTEGRATED STRATEGIC GOALS:

1. DETERMINE VULNERABILITIES AND USER NEEDS
2. CO-PRODUCE CLIMATE INFORMATION
3. CREATE RELEVANT DECISION SUPPORT TOOLS
4. IMPROVE SYSTEM THROUGH EVALUATION
5. BUILD LOCAL CAPACITY





APPROACH


Enhanced Climate Resiliance and Adaptive Capacity
OUTCOMES
PROCESS
Stakeholders Needs Assessment
Product Development
Evaluation
UA
IRI
Regional Partners
RESEARCH FOCUS
Evaluation
Decision Support
Climate Vulnerability

FIVE PILLARS OF THE IRAP APPROACH

TIMESCALES

MONTHS

DECADES

CLIMATE CHANGE

1 IDENTIFY VULNERABILITIES AND OPPORTUNITIES IN CLIMATE VARIABILITY AND CHANGE IN COLLABORATION WITH "STAKEHOLDERS"

Which systems? What components within systems?

2 UNDERSTAND/QUANTIFY/REDUCE UNCERTAINTIES

Learn from the past, monitor the present, provide relevant info on the future

3 IDENTIFY INTERVENTIONS (TECHNOLOGIES) THAT REDUCE VULNERABILITY

E.g., vaccination, drought resistance crops, water holding capacity

4 IDENTIFY POLICIES AND INSTITUTIONAL ARRANGEMENTS THAT REDUCE VULNERABILITY AND/OR TRANSFER RISKS

Early Warning / Early Response Systems, Insurance, Credit

5 DESIGN EVALUATION AT OUTSET OF TARGETED INTERVENTIONS & ENGAGEMENT

E.g., baselines, outputs vs outcomes

ETHIOPIA – A MODEL

ETHIOPIA CLIMATE SERVICE: INFORMATION DELIVERY

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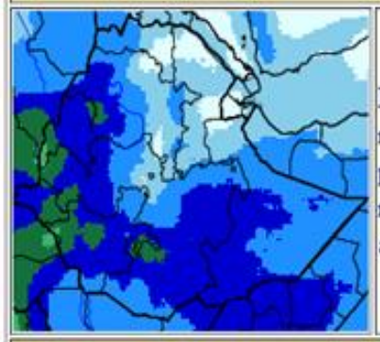
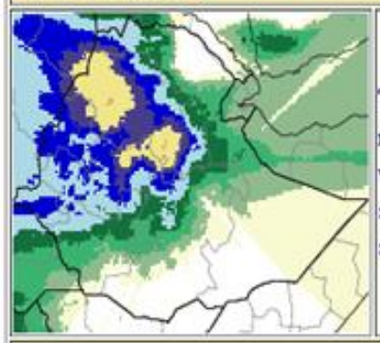
Climate Analysis



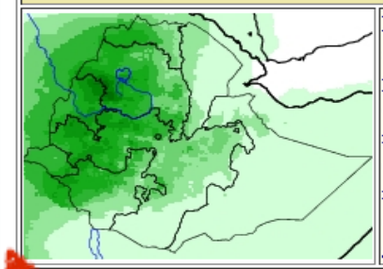
Rainfall and temperature time series (1983-2010) reconstructed from station observations and remote sensing proxies. This interface allows users to view rainfall, maximum and minimum temperature climatologies and anomalies.

Climate Monitoring



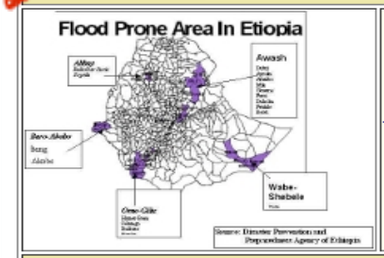
This is a rainfall-monitoring product based on dekadal rainfall. The interface allows users to view recent rainfall with a seasonal and recent historical perspective. Time series analyses of rainfall data are generated based on user-selected parameters.

Climate and Agriculture



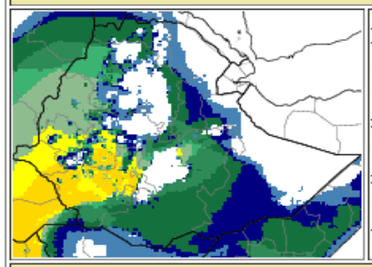
Explores historical daily precipitation by calculating simple seasonal statistics. Many options can be specified to produce yearly time series of a chosen seasonal diagnostic of the daily precipitation data. The user can then choose to map the mean, standard deviation or probability of exceeding a chosen threshold, over years; clicking on the map will then produce a local yearly time series of the chosen diagnostic. A series of links allow one to download graphs, maps and data files.

imate and Water



Under Construction

Climate and Health



Empirically-derived thresholds of precipitation, temperature and relative humidity are used to assess the climatic suitability of malaria transmission. The interactive map initially displays the number of months during the year when climatological averages meet these requirements. Users may gain insight into how often these conditions have actually occurred during any particular month by clicking on the map at the location of interest.

Seasonal Climate Monitoring

I can put a text to describe my maproom.

8

FIVE PILLARS OF THE IRAP APPROACH

TIMESCALES

MONTHS

DECADES

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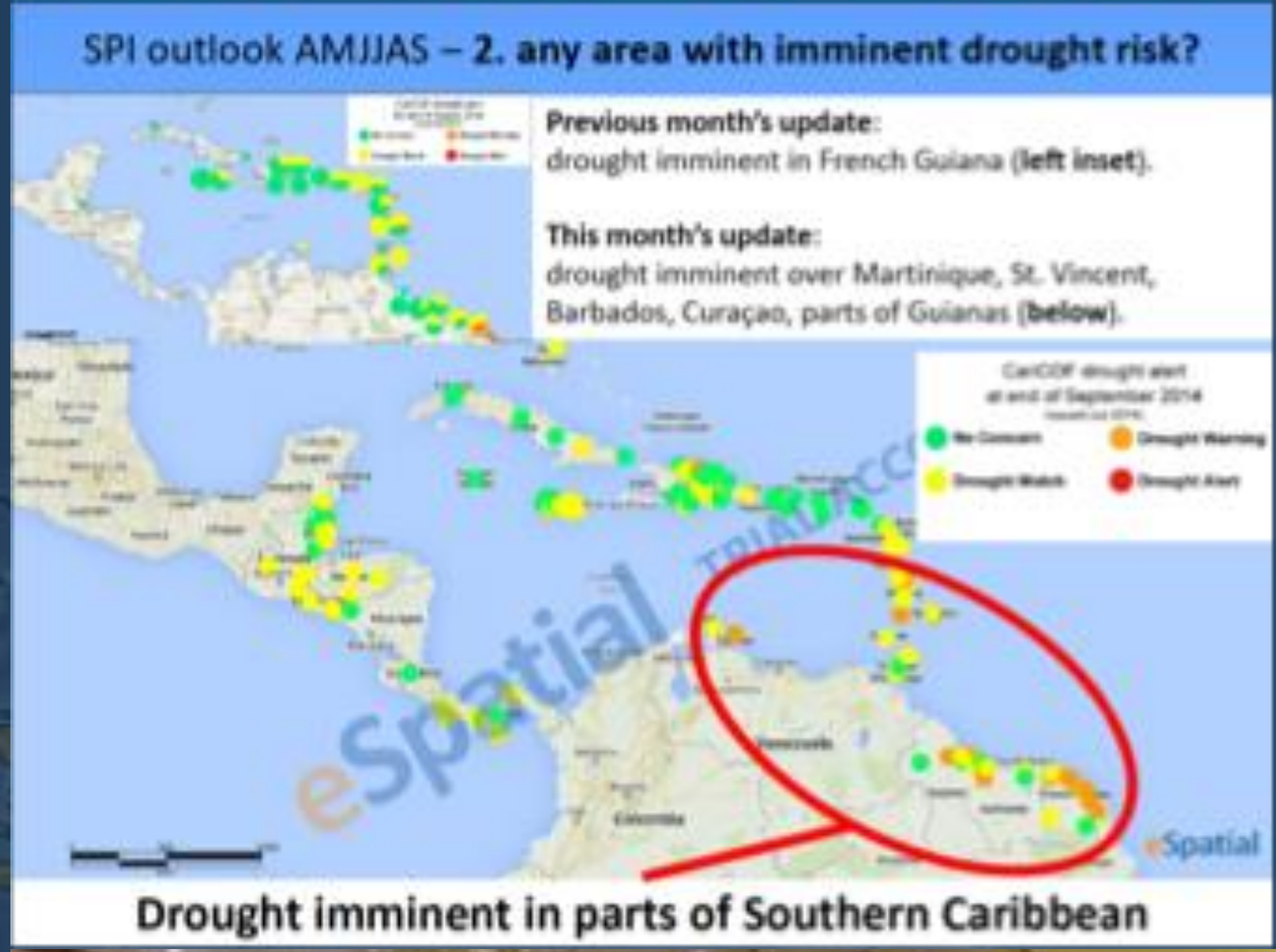
Early Warning / Early Response Systems, Insurance, Credit

5 DESIGN EVALUATION AT OUTSET OF TARGETED INTERVENTIONS & ENGAGEMENT

E.g., baselines, outputs vs outcomes

IRAP WORKSHOP POST CARICOF KINGSTON, MAY 2014

- LITERATURE REVIEW
- WORLD CAFÉ
- SMALL GROUPS ON DISASTERS
- SOCIAL NETWORK ANALYSIS
- INTERVIEWS
- PASSIVE OBSERVATIONS
- EVALUATION SESSION
- FOCUSED PROJECTS



THE IRAP APPROACH

COFFEE RUST

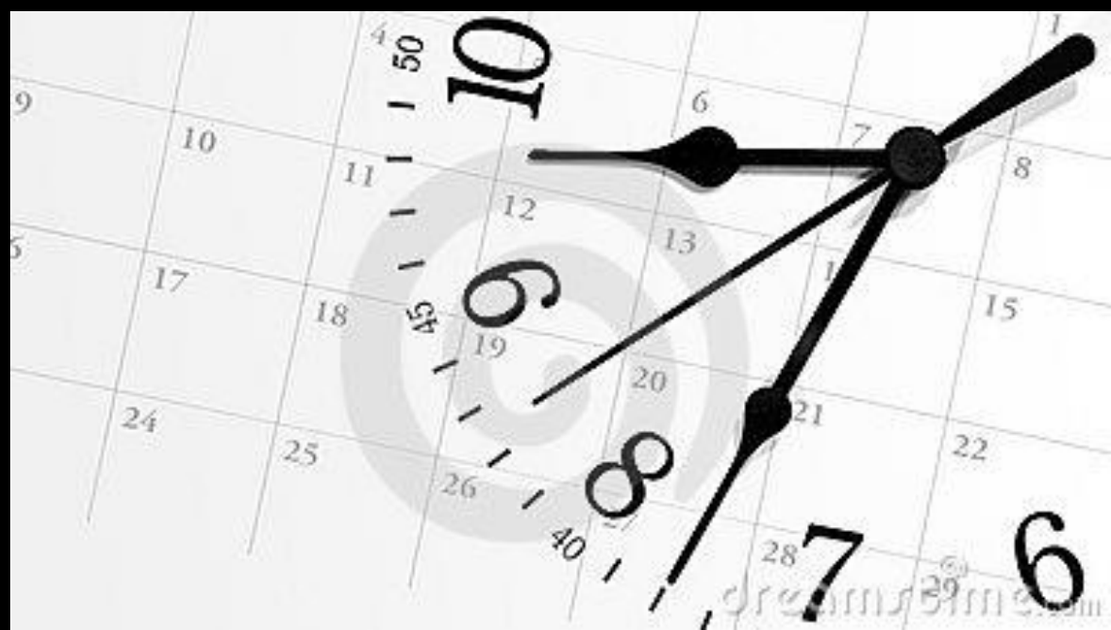
Ministry of Agriculture and Fisheries

Caribbean Community Climate Change Centre

CIMH
Caribbean Institute for Meteorology & Hydrology

So, what about Partnerships?

- Why Partner?
- Critical Ingredients of successful Partnerships
- Some Challenges



IRAP ⟷ RISA

CLIMAS
Climate Assessment for the Southwest

- Team members
- Social Science Methods
- Compare findings
- Scaling
- Research-to-Action
- Evaluation

IRAP International Research Applications Program

Integrating Climate Information and Decision Processes for Regional Climate Resilience

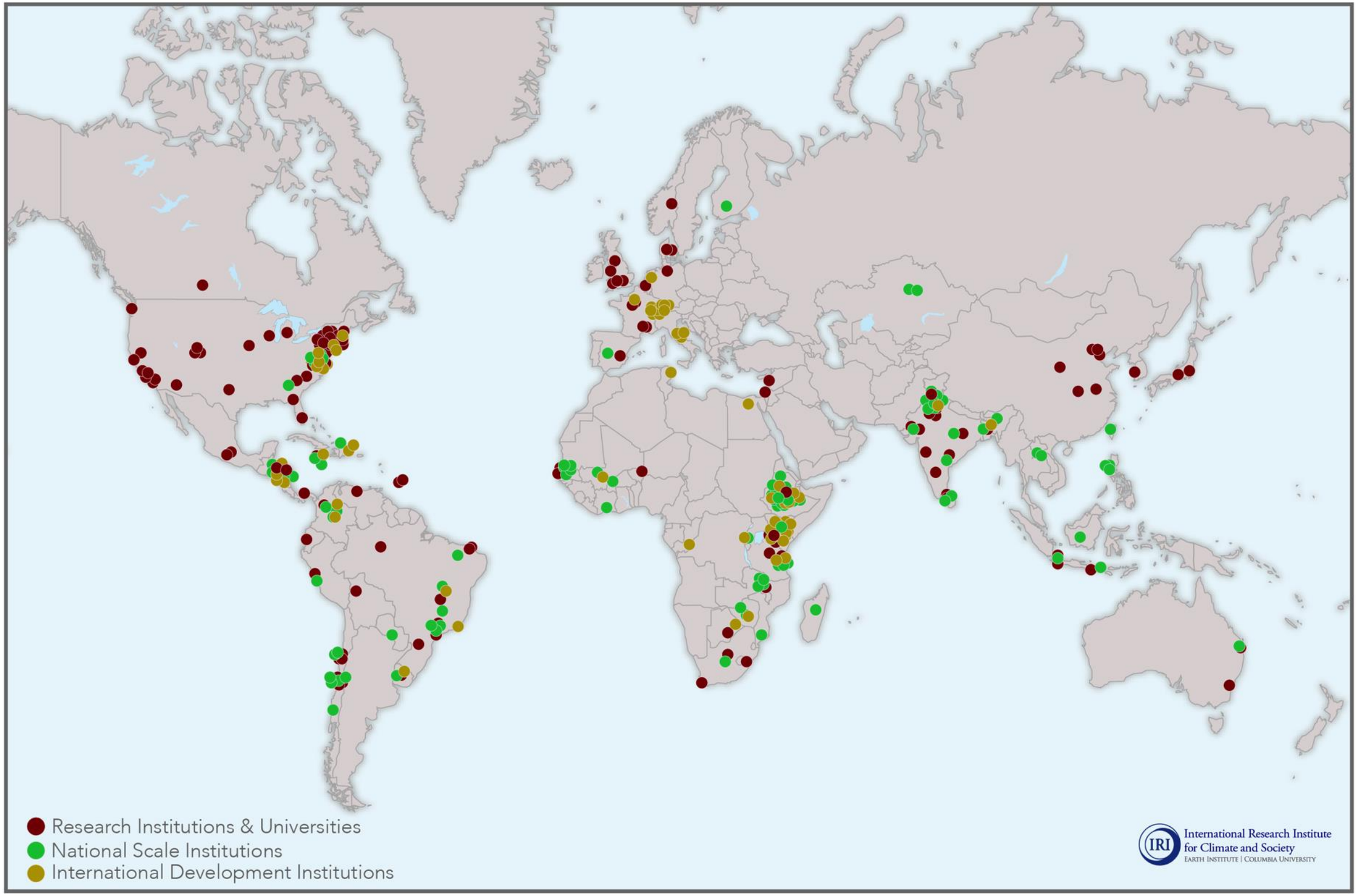
EVALUATION

Design scientifically rigorous evaluation and build as integral part of the project from the very beginning. Establish baseline.

Evaluate IRAP program in context of other activities and interventions underway in the region

Engage stakeholders from the beginning:

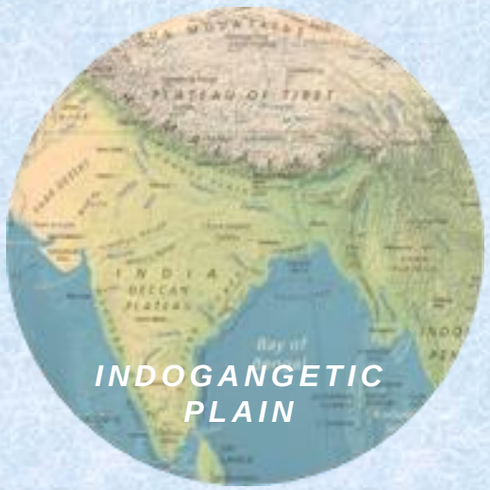
- Trust-building and Transparency
- Identify what is important
- Outcomes/Impact focused



COLLABORATIONS

Organizations with which IRI has collaborated since 1996

http://iri.columbia.edu @climatesociety /climatesociety



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